Approved for use through 10/31/2002, OMB 0651-0031

3. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, hopersons are required by sepond to a collection of information unless it contains a valid OMB control number of form 1449B/PTO

Complete If Known

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(4	use as many she	ets as	necessary)	
Sheet	1	of	5	

MARK		
Application Number	10/001,894	
Filing Date	November 19, 2001	
First Named Inventor	Jonathan J. Hull	
Group Art Unit	2173	39,
Examiner Name	Unassigned	3
Attorney Docket Number	015358-007200US	Ø,

,		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	- 2
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Τ²
KS	1.	Adobe Premiere (video editing software) from Http://www.adobe.com (2002).	
VS.	2.	BOBICK et al. "A State Based Approach to the Representation and Recognition of Gesture," IEEE Trans. on Pattern Analysis and Machine Intelligence, pp. 1325-1337 (1997).	
V5	3.	BORECZKY, J. et al. "An Interactive Comic Book Presentation for Exploring Video," Conference on Human factors in Computing Systems (CHI 2000), ACM Press, pp. 185-192, 2000.	
165	4.	BOYKIN et al, "Improving Broadcast News Segmentation Processing," IEEE Multimedia '99 (1999).	
11/2	5.	BOYKIN et al. * Machine learning of Event Segmentation for News on Demand,* Communications of the ACM, 43:35-41(2000).	
KS.	6.	BROWN et al. "Automatic Content-Based Retrieval of Broadcast News," ACM Multimedia 5, San Francisco, CA (1995).	
25	7.	CAJ et al. "Integrated Multimedia Publishing – Combining TV and Newspaper Content on Personal Channels," WWW8 Conference, 1999.	
US	8.	CHEN et al. "Emotion Recognition from Audiovisual Information," Proc. IEEE Workshop on Multimedia Signal Processing, Los Angeles, CA, USA, pp. 83-88 (1998).	
US.	9.	CHEN et al. "ViBE: A Video Indexing and Browsing Environment," Proceedings of the SPIE Conference on Multimedia Storage and Archiving Systems September 20-22, 1999, Boston 3846:148-164 (1999).	
11.5	10.	CHIU et al. "NoteLook: Taking Notes in Meetings with Digital Video and Ink," ACM Multimedia 99 Orlando, (1999).	
163	11.	CHIU et al. "Automatically linking multimedia meeting documents by image matching," Proceedings of Hypertext '00. ACM, New York, pp. 244-245 (2000).	
WS	12.	CHRISTEL et al. "Evolving Video Skims into Useful Multimedia Abstractions," Proceedings of the CHI '98 Conference on Human Factors in Computing Systems (Los Angeles, CA, April 1998), pp. 171 –178 (1998).	
115	13.	CHRISTEL et al. "Information Visualization within a Digital Video Library," Journal of Intelligent Information Systems 11:35-257 (1998).	
WS	14. ,	DELLAERT et al. "Recognizing emotion in speech," Proceedings ICSLP 98. Fourth International Conference on Spoken Language Processing New York (Cat. No. 98TH8206). IEEE. Vol:1970-1973 (1996).	
W/s	15.	DIMITROVA et al. "Video Keyframe Extraction and Filtering: A Keyframe is not a Keyframe to Everyone," CIKM 1997:113-120 (1997).	
v -	1		

Examiner Signature	The s	hale	Date Considered	9/17/84

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3222909 v1

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

							_
Please	type a	plus	sian	(+)	inside	this	box

+

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031 ant and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no person years

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

S LEACHING IN TRESPEND IN S COMPAND OF	AROUND TO RECOVER TO A 1970 CASE	COLING LIGHT
HADEMIN	Complete if Kn wn	
Application Number	10/001,894	
Filing Dat	November 19, 2001	
First Named Inventor	Jonathan J. Hull	٠.
Group Art Unit	2173	ec)
Examiner Name	Unassigned	12
Attorney Docket Number	015358-007200US	3

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s); publisher, city and/or country where published.	T²
65	16.	DOERMANN et al. "Applying Algebraic and differential invarients for logo recognition," Machine Vision and Applications 9:73-86 (1998).	_
1/4	17.	DONATO et al. "Classifying Facial Actions", IEEE Trans. on Pattern Analysis and Machine Intelligence, 21:974-989 (1999).	
V4	18.	ESSA et al. *Coding Analysis Interpretation and Recognition of Facial Expressions, IEEE Trans. on Pattern Analysis and Machine Intelligence, 19:757-763 (1997).	
US	19.	Face recognition techniques described at web site http://www.visionics.com (2002).	
18	20.	FOOTE, Jonathan, et al. "An Intelligent Media Browser using Automatic Multimodal Analysis," ACM Multimedia 8, Bristol, UK (1998).	
18	21.	FURUI et al. "Japanese Broadcast News Transcription and Information Extraction," Communications of the ACM, 43(2):71-73, Feb 2000.	
US	22.	GAUVAIN et al. "Transcribing Broadcast News for Audio and Video Indexing," Communications of the ACM, 43:64-70 (2000).	
125	23.	GIBBON "Generating Hypermedia Documents from Transcriptions of Television Programs Using Parallel Text Alignment," <u>Handbook of Internet and Multimedia Systems and Applications</u> , David C. Gibbon; CRC Press, (1998).	
45	24.	GORDON "Using annotated video as an information retrieval interface," ACM Proceedings of the 5th international Conference on Intelligent User Interfaces New Orleans pp. 133 - 140 (2000)	
108	25. •	HAUPTMANN et al. "Text, speech and vision for video segmentation: the Informedia project," Proc. AAAI Fall Symp. Computational Models for Integrating Language and Vision, Boston, MA, Nov. 10-12, 1995.	
165	26.	HAUPTMANN et al. "Story Segmentation and Detection of Commercials in Broadcast News Video," Advances in Digital Libraries Conference, Santa Barbara, CA, April 22-23 1998.	
145	27.	HE et al. "Comparing Presentation Summaries: Slides vs. Reading vs. Listening," Conference on Human factors in Computing Systems (CHI 2000), April 1-6, 2000.	
US	28.	HECHT "Embedded data glyph Technology for Hardcopy Digital Documents," Proc. SPIE 2171:341-352 (1994).	

Examiner Signature	My MAN	Date Considered	2/17/14

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3222909 v1

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0851-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995; indepensors are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Kn wn					
Application Number	10/001,894				
Filing Date	November 19, 2001				
First Named Inventor	Jonathan J. Hull				
Group Art Unit	2173	En.			
Examiner Name	Unassigned	1/10			
Attorney Docket Number	015358-007200US	7			

Substitute for form 1449B/PTO		Complete if Kn wn			
		ION DIGGI COURT	Application Number	10/001,894	
		ION DISCLOSURE	Filing Date	November 19, 2001	·
STATI	EMEN	NT BY APPLICANT	First Named Inventor	Jonathan J. Hull	
			Group Art Unit	2173	Z,
(u	ise as m	any sheets as necessary)	Examiner Name	Unassigned 770	. Tr
Sheet	3	of 5	Attorney Docket Number	015358-007200US	<b>5</b>
					~ G
1/5	29.	HECHT *Printed Embedded Data Graphi	ical User Interfaces," IEEE Compute	10/001,894 November 19, 2001 Jonathan J. Hull 2173 Unassigned 015358-007200US  ar, March 2001.	
19	30.	HU et al. "Multimedia Description Frame ACM Conference on Digital Libraries (DL		s of Audio/Video Documents,* Fourth	
13	31.	IOFFE et al. *Finding people by sampling (1999).	," Proc. International Conference o	n Computer Vision, pp. 1092-1097	
115	32.	JIN et al. Topic Tracking for Radio, TV E Workshop, Feb. 28-Mar 3, 1999, Hemdo	Broadcast, and Newswire," Proceed n, VA.	ings of the DARPA Broadcast News	
15	33.	KOMLODI et al. "Key Frame Preview Te Conference on Digital Libraries, June 23	chniques for Video Browsing," (Pro- -26, 1998, Pittsburgh, pp. 118-125	ceedings of the 3rd ACM International (1998).	
19	34.	Li et al. *Automatic Text Detection and T Issue on Image and Video Processing fo	I et al. "Automatic Text Detection and Tracking in Digital Video," IEEE Transactions on Image Processing – Special support on Image and Video Processing for Digital Libraries, 9:147-158 (2000).		
15	35.	U et al. "Text Extraction and Recognition Analysis Systems, pp. 119-128, 1998.	et al. "Text Extraction and Recognition in Digital Video," Proceedings of Third IAPR Workshop on Document nalysis Systems, pp. 119-128, 1998.		
4	36.	Li et al. "VISION: a digital video library," pp. 19-27, 1996.	Proceedings of the 1st ACM Interna	tional Conference on Digital Libraries,	
19	37.	LIANG et al. "Practical video indexing an SPIE 3240:294-303, (1988).	d retrieval system		
1/9	38.	LIENHART et al. "On the Detection and Computing and Systems, Ottawa, Canada	Recognition of Television Commercia, pp. 509-518, June 1997.	ials," Proc. IEEE Conf. on Multimedia	
115	39.	MA et al. "An Indexing and Browsing Sys Signal Processing Conference, 5-8, Sept	stem For Home Video," Invited paper t. 2000, Tampere, Finland.	or, EUSIPCO '2000, 10th European	
15	40.	MAYBURY "News on Demand," Commu	nications of the ACM, 43:33-34 (20	00).	
US	41.	MAYBURY et al. "Segmentation, Conten Analysis," AAAI Paper (1997).	t Extraction and Visualization of Bro	padcast News Video Using Multistream	
1/4	42.	MAYBURY et al. "Multimedia Summaries Systems pp. 447-449 (1997).	s of Broadcast News," International	Conference on Intelligent Information .	
1/3	43.	MAYBURY et al. "Multimedia Summaries Systems, December 8-10, 1997.	s of Broadcast News," International	Conference on Intelligent Information	
IR.	44.	MERIALDO et al. "Automatic Construction Multimedia Conference, Orlando Novem	on of Personalized TV News Progra ber 1999.	ms," Seventh ACM International	
1/2	45.	MERLINO et al. "Broadcast News Navig The MITRE Corporation (1997).	ation using Story Segmentation,* A	dvanced Information Systems Center,	
	L	<u></u>			

Examiner Signature Auf Sml	Date Considered	9/12/02/

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (08-00)

PTO/SB/08B (08-00)

Approved for use through 10/31/2002. OMB 0651-0031

US Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no describe are required to a collection of information unless it contains a valid OMB control number of form 1449B/PTO

Substitute for form 1449B/PTO

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

EMARK	Complete if Known	
Application Number	10/001,894	
Filing Dat	November 19, 2001	
First Named Inventor	Jonathan J. Hull	
Group Art Unit	2173 .	, ,
Examiner Name	Unassigned	PChr
Attorney Docket Number	015358-007200US	10/
and the second s		

			<b>D</b> :-	01 001:55	Application Number	10/001,894	
				CLOSURE	Filing Dat	November 19, 2001	
TAT	EME	NT B'	Y A	PPLICANT -	First Named Inventor	Jonathan J. Hull	
					Group Art Unit	2173	JU
	(use as m	nany she	ets as	necessary)	Examiner Name	Unassigned PCA	
eet	4		of	5	Attorney Docket Number	015358-007200US	Olod
					. 7		<del>- 0</del> y
15	48.	MERLI	NO et a	al. "Broadcast News Proces	sing Techniques," MITRE Technica	10/001,894  November 19, 2001  Jonathan J. Hull  2173  Unassigned  015358-007200US  Report, MTR 9980000031, April 1999.	
15	47.	мона	N "Tex	tt-based search of TV news	stories," Proc. SPIE 2916:2-13 (19		
14	48.			*Multi-View Intelligent Editors, June 24-28, 2001, Roan		ACM and IEEE Joint Conference on	
15	49.			cient and Cost-effective Tec 000: 415-426	chniques for Browsing and Indexing	Large Video Databases," SIGMOD	
15	50.	PHOTI	NA et a	al. "Improving acoustic mode n Multimedia Computing an	els with captioned multimedia spee d Systems, 2:767-71 (1999).	ch," Proceedings IEEE International	
15	51.			II. "Neural network-based fa 20:23-38 (1998).	ce detection,* IEEE Transactions of	n Pattern Analysis and Machine	
15	52.	SHAHF	SHAHRARAY et al. "Automated Authoring of Hypermedia Documents of Video Programs," ACM Multimedia 95, November 5-9, 1995, San Francisco, CA (1995).			eo Programs,* ACM Multimedia 95,	
15	53.	SHAHI Soc. O	RARAY	et al. "Automatic generatio . 2417:512-518 (1995).	n of pictorial transcripts of video pr	ograms," Proceedings of the SPIE-Int.	
15	54.	SHAHI	RARAY	et al. "Pictorial transcripts: Multimedia Signal Processi	multimedia processing applied to ong pp. 581-586 (1997).	ligital library creation," 1997 IEEE First	
15	55.	SMITH Unders	et al. *	Video Skimming and Chara g," Computer Vision and Pa	acterization through the Combination term Recognition IEEE 1997.	n of Image and Language	
5	56.	SONM Proces	EZ et a	al. "Multiple speaker tracking 0:133-143 (2000).	g and detection: handset normalizate	tion and duration scoring," Digital Signal	
15	57.	SUDA Confer	et al. "L ence o	ogo and word matching us n Document Analysis and R	ing a general approach to signal re tecognition, Ulm, Germany, August	gistration," Fourth International 18-20, 1997, pp. 81-65.	
1/9	58.	TENN8 Procee	ENHOU edings o	ISE et al. "A software-orien of the IEEE International Co	ted approach to the design of medi inference on Multimedia Computing	a processing environments," g and Systems, pp. 435-444 (1994).	
15	59.	ACM p	p 131-1	136 (1993).		video content,* Proc. INTERCHI '93	
1/5	60.	UCHIH Procee 3044 (1	dings (	et al. "Summarizing Video U of the International Conferen	ising a Shot Importance Measure a nce on Acoustics, Speech, and Sig	nd a Frame-Packing Algorithm," nal Processing (Phoenix, AZ) 6:3041-	
15.	61.	UCHIH	IASHI 6	et al. "Video Manga: Genera da, October 30-November !	ating Semantically Meaningful Video 5, 1999.	o Summaries," ACM Multimedia 99,	
'G	62.	Video	content	management and publishing	ng software from Virage http://www	v.virage.com (2002).	
						<del></del>	

Examiner Signature	Veft	MI	Date Considered	2112/02/	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3222909 v1

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (08-00)

Approved for use through 10/31/2002, OMB 0651-0031

Approved for use through 10/31/2002, OMB 0651-0031

Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required by espond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO

Sheet

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sne	612 92	necessary)
1 5		-

DEMARK	Complete If Known
Application Number	10/001,894
Filing Dat	November 19, 2001
First Named Inventor	Jonathan J. Hull
Group Art Unit	2173
Examiner Name	Unassigned
Attorney Docket Number	015358-007200US

165	63.	"Video Mail Retrieval Using Voice" Cambridge University Engineering Department Computer Laboratory and Olivetti Research Laboratory summary of research found at http://svr-www.eng.cam.ac.uk/research/projects/vmr/ (1997).	
16	64.	WACTLAR et al. "Complementary Video and Audio Analysis for Broadcast News Archives," Communications of the ACM, 43:42-47 (2000).	
1/5	65.	WACTLER et al. "Intelligent access to digital video: Informedia project," Computer 29:46-52 (1996).	
165	66.	WEISS et al. "Composition and Search with a Video Algebra," IEEE Multimedia 2:12-25 (1995).	
16	67.	WITTENBURG et al. "Browsing with Dynamic Key Frame Collages in Web-Based Entertainment Video Services," In Proceedings of IEEE International Conference on Multimedia Computing and Systems, June 7-11, 1999, Florence, Italy 2:913-918 (1999).	
119	68.	ZHANG et al. "Detection of text Captions in Compressed domain Video, " International Multimedia Conference Proceedings of the 2000 ACM workshops on Multimedia 2000, Los Angeles, California, United States pp. 201 – 204.	

Examiner Signature	Milleson	Date Considered	alistore

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the Individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231, DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3222909 v1

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0851-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 4 Sheet

C mplete if Known							
Application Number	10/001,894						
Filing Date	November 19, 2001						
First Named Inventor	Hull, Jonathan J.						
Art Unit	2173						
Examiner Name	Unassigned						
Attorney Docket Number	015358-007200US						

			U.S. PATENT D	OCUMENTS	
		Occument Number			
Examiner	Cite No.	Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Pessages or Relevant Figures Appear
105	1	6,182,090	01-30-2001	Peairs	
V-5	2	6,101,503	08-08-2000	Cooper et al.	
12-5	3	6,055,542	04-25-2000	Nielsen et al.	
1,00	4	6,028,601	02-22-2000	Machiraju et al.	
924	5	6,026,409	02-15-2000	Blumenthal	
n	6	6,021,403	02-01-2000	Horvitz et al.	
4/25	7	6,006,218	12-21-1999	Breese et al.	DECENTA
16	8	5,987,454	11-16-1999	Hobbs	INCCEIVED
16	9	5,950,187	09-07-1999	Tsuda	
125	10	5,946,678	08-31-1999	Aalbersberg	JUI 2 4 2002
Kb	11	5,943,679	08-24-1999	Niles et al.	2002
11.5	12	5,873,107	02-16-1999	Borovoy et al.	Technology Center 2100
45	13	5,870,770	02-09-1999	Wolfe	pormology certiler 2100
16-5	14	5,860,074	01-12-1999	Rowe et al.	-
45	15	5,857,185	01-05-1999	Yamamura	
124	16	5,838,317	11-17-1998	Bolnick et al.	
K5	17	5,832,474	11-03-1998	Lopresti et al.	
115	18	5,819,301	10-06-1998	Rowe et al.	
V-5	19	5,784,616	07-21-1998	Horvitz	
45	20	5,781,785	07-14-1998	Rowe et al.	
U5	21	5,778,397	07-07-1998	Kupiec et al.	•
105	·22	5,761,655	06-02-1998	Hoffman	
65	23	5,748,805	05-05-1998	Withgott et al.	
KS	24	5,737,599	04-07-1998	Rowe et al.	
18	25	5,694,559	12-02-1997	Hobsen et al.	
45	26	5,680,636	10-21-1997	Levine et al.	
45	27	5,638,543	06-10-1997	Pedersen et al.	
109	28	5,596,700	01-21-1997	Darnell et al.	
115	29	5,481,666	01-02-1996	Nguyen et al.	
119	30	5,479,600	12-26-1995	Wroblewski et al.	<u> </u>
45	31	5,442,795	08-15-1995	Levine et al.	
119	32	5,418,948	05-23-1995	Turtle	
115	33	5,404,295	04-04-1995	Katz et al.	
Wij	34	5,384,703	01-24-1995	Withgott et al.	

Examiner Signature	Ille Sode	Date Considered	9117/11
	0000		

EXAMINER; Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

<sup>1</sup> Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)
Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

Sheet

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of

	Complete if Known	
Application Number	10/001,894	
Filing Date	November 19, 2001	
First Named Inventor	Hull, Jonathan J.	
Art Unit	2173	
Examiner Name	Unassigned	
Attorney Docket Number	015358-007200US	

U.S. PATENT DOCUMENTS						
		Document Number				
Examiner	Cite No. <sup>1</sup>	Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
19	35	5,349,658	09-20-1994	O'Rourke et al.	DECEIVED	
45	38	5,309,359	05-03-1994	Katz et al.	NECEIVED	
11.5	37	5,153,831	10-06-1992	Yianilos		
15	38	4,823,303	04-18-1989	Terasawa	JUL 2 4 2002	
125	39	4,417,239	11-22-1983	Demke et al.		
12.5					Technology Contor 210	
125					roomiology ochici 210	

				FOREIGN PA	TENT DOCUME	NTS		
C	0.1	For	eign Patent Doc	ment		Name of Patentee or	Pages, Columns, Lines,	
Examiner Initials*	Cite No. <sup>1</sup>	Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>6</sup> ( <i>Il known</i> )	Publication Date MM-DD-YYYY	Applicant of Cited  Document	Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
43	40	EP	802 492	A1 ·	10-22-1997	IBM Corporation		
11.5	41	EP	762 297	A2	03-12-1997	Sun Microsystems	,	
15	42	EP	737 927	A2	10-16-1996	Xerox Corporation		
125	43	EP	378 848	A2	07-05-1990	IBM Corporation		
65	44	EP	459 174	B1	11-20-1996	Cina		
RS	45	· GB	2 290 898	Α	01-10-1996	Canon Business Machines, Inc.		
623	46	GB	2 234 609	Α	02-06-1991	IBM Corporation		
125	47	G8	2 156 118	Α	10-02-1985	Canon Kabushiki Kaisha		
115	48	GB	2 137 788	Α	10-10-1984	Gavilan Computer Corporation		
ns	49	JP	8-297677	Α	11-12-1996	Xerox Corporation		
1.5								

Examiner Signature Date Considered 2/17/54	 	 	
	Hefr Soll	2/17/84	

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231

<sup>1</sup> Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

JUL 2 2 2002

PTO/SB/08B (10-01) Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Ad. of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

CADENTER Substitute for form 1449B/PTO Complet if Known **Application Number** 10/001,894 INFORMATION DISCLOSURE Filing Date November 19, 2001 STATEMENT BY APPLICANT **First Named Inventor** Hull, Jonathan J. Art Unit 2173 (use as many sheets as necessary) **Examiner Name** Unassigned 015358-007200US of 4 Attorney Docket Number Sheet

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS		
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²	
15	50	Acrobat Reader Version 2.0 (software application), Adobe Systems Incorporated, screenshots Figures 1-10 (1994).		
ly	51	Adobe Acrobat Reader 3.0 screen dumps (fig. 1-3), (1996).	1//	=r
15	52	Adobe Systems, Inc., "Adobe Photoshop 4.0 User Guide for Macintosh and Windows," pp. 30-31 (1996).		
115	53	Apple Macintosh system 7 reference manual, pages 30-31 (1991).  Technology (	1 1	
145	54	BALL et al. "Software Visualization in the Large", IEEE Computer, 29: 33-43 (1996).	Jeine	1 4
115	55	BOGURAEV et al. "Salience-Based Content Characterisation of Text Documents," Proceedings of the ACL/EACL Workshop on Intellegent [Sic] Scalable Text Summarization, 1997. Topic identification, Discourse-based summarization, pp. 1-12 (1997).		
109	56	BRANDOW et al. "Automatic Condensation of Electronic Publications by Sentence Selection," <u>Information Processing and Management</u> , 31(5):675-685 (1995).		
45	57	GLIEDMAN "Virtual Office Managers," Computer Shopper, 18:290 (1998).		
115	58	GREENBERG et al., "Sharing fisheye views in relaxed-WYSIWIS groupware applications," Proceedings of Graphics Interface, Toronto, Canada, May 22-24, 1995, Distributed by Morgan-Kaufmann, Pp. 28-38, http://www.cpsc.ucalgary.ca/grouplab/papers/1996/96-Fisheye.Gl/gi96 fisheye.html.		
US	59	HEARST et al. "TileBars: Visualization of Term Distribution Information in Full Text Information Access,"  Proceedings of the ACM SIGCHI Conference on Human Factors in Computing Systems (CHI), Denver, CO., May 1995, Pp. 1-8, http://www.acm.org/sigchi/chi95/Electronic/documnts/papers/mah bdy htm.		
115	60	HILL et al. "Edit Wear and Read Wear", ACM, pp. 3-9 (May 3-7, 1992).		
145	61	LANGLEY "An Analysis of Bayesian Classifiers," Proceedings of the Tenth National Conference on Artificial Intelligence, pp. 223-228, 1992.		
125	62	LANGLEY "Induction of Selective Bayesian Classifiers," Proceedings of the Tenth National Conference on Uncertainty in Artificial Intelligence, pp. 400-406, (1994).		
11.9	63	MANBER *The Use of Customized Emphasis in Text Visualization,* <u>Proceedings of 1997 IEEE Conf. on Information Visualization</u> , pages 132-138, (1997).		
115	64	SCHWEIGHOFER et al. "The Automatic Generation of Hypertext Links in Legal Documents," <u>Lecture Notes in Computer Science</u> , vol. 1134, Wagner et al., eds., from 7th Int. Conf., DEXA 96', held 9/96 in Zurich, Switzerland (1996)		

Examiner Signature	Ulyle Stolo	Date Considered 9/17/159	

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

PA 3234311 v1

+

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>&</sup>lt;sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08B (10-01)

Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE from Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

of 4

Substitute for form 1449B/PTO

Sheet

Complete if Known **Application Number** 10/001,894 **Filing Date** November 19, 2001 **First Named Inventor** Hull, Jonathan J. 2173 Art Unit Examiner Name Unassigned 015358-007200US Attorney Docket Number

Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
US	65	SUMITA et al. "Document Structure Extraction for Interactive Document Retrieval Systems," <u>Proceedings of SIGDOC</u> 93, pages 301-310, (1993).	
115	66	TAGHVA et al. "An Evolution of an Automatic Markup System," SPIE, 2422:317-327 (1995).	
14	67	TAXT "Segmentation of Document Images," IEEE 11:1322-1329 (1989).	
-		RECEI	VE
		.1111 2 4	200

Technology Center 2100

Examiner Signature	light At Vile	Date Considered	2/11/84

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231. PA 3234311 v1

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. 2 Applicant is to place a check mark here if English language Translation is attached.